Run Position Switch (RPS)

❖ **There are 12 independent factory set RPS selections available for each target:**

- **RPS #1 - #3 – Basic profiles heading easterly**
- **RPS #4 - #6 – Basic profiles heading westerly**
- **RPS #7 - #8 – Are Intermediate profiles**
- **RPS #9 - #10 – Are Advanced profiles**
- **RPS #11 – Is a Shallow Water profile**
- **RPS #12 – Is a Magnetic Anomaly Detection (MAD) profile**

❖ **These profiles are loaded in MK39 Mod 2 Serial #XXXXX thru XXXXX**

❖ **MK39 Mod 2 Serial Number #XXXXX and higher will have RPS #3 & #4 changed to be Shallow Water (run depth 75 ft)**

❖ **These profiles are loaded in <u>all</u> MK39 Mod 2 units delivered to the Fleet**

RPS #1

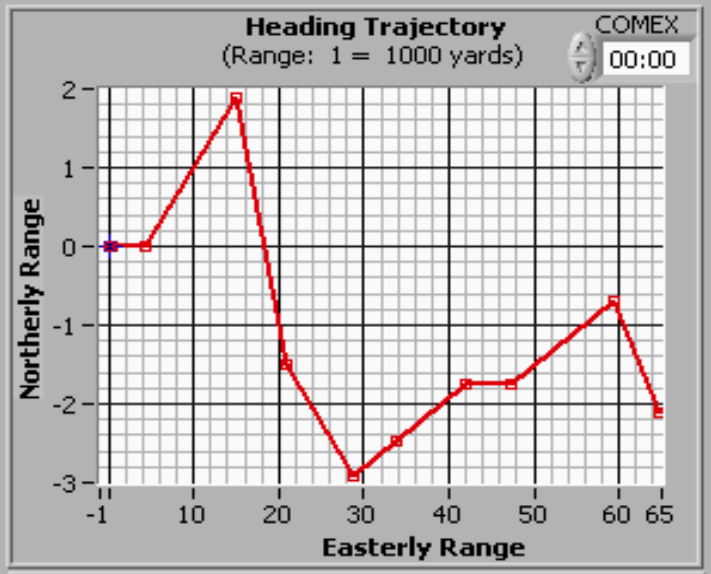
RGA Windows Application - Deployed Fleet Rev a

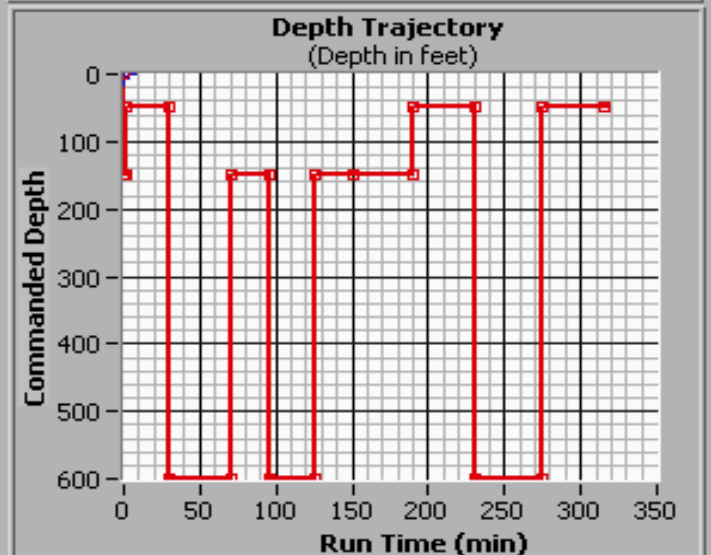
File Target Edit View Help

Target: USN Mod2 | RPS: 1

Battery Life Remaining (%): 12

Pinger OFF | MPD OFF | ACLs OFF





	Depth	Hdng	Spd	A/P Sel	Seg Dur	Exit Time	Range	Tonal Attn	AEM	Mad
1	150	90	8	6	00:02	00:02	540	0	None	
2	50	90	4	6	00:28	00:30	3781	0	None	
3	600	80	8	7	00:40	01:10	10802	0	None	
4	150	120	8	7	00:25	01:35	6751	0	None	
5	600	100	8	7	00:30	02:05	8101	0	None	
6	150	85	6	7	00:25	02:30	5063	0	None	
7	150	85	6	7	00:40	03:10	8101	0	None	
8	50	90	4	6	00:40	03:50	5401	0	None	
9	600	85	8	7	00:45	04:35	12152	0	None	
10	50	105	4	6	00:40	05:15	5401	0	None	
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Geometry Description

- Run Position switch position #1 is a Basic east geometry. The first turn is to an 80 degree heading
- The unit stays within a 5,000 by 65,000yd box
- It operates at three depths (50, 150 and 600 feet)
- It runs for approximately 5 hours and 20 minutes

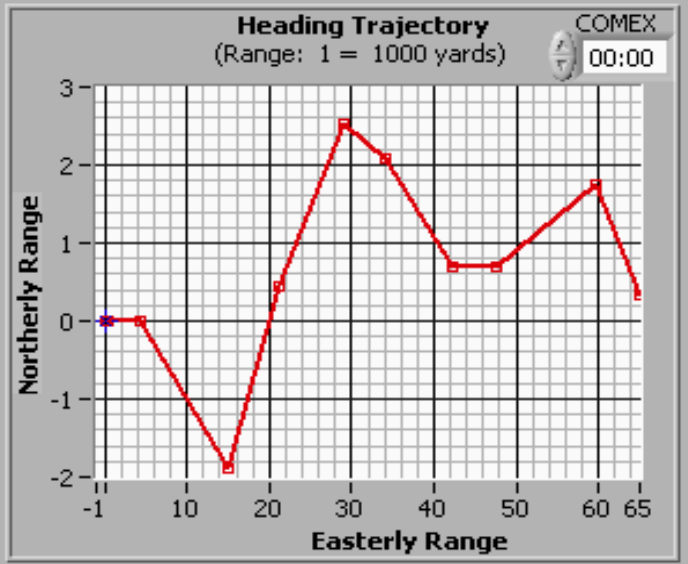
RGA Windows Application - Deployed Fleet Rev a

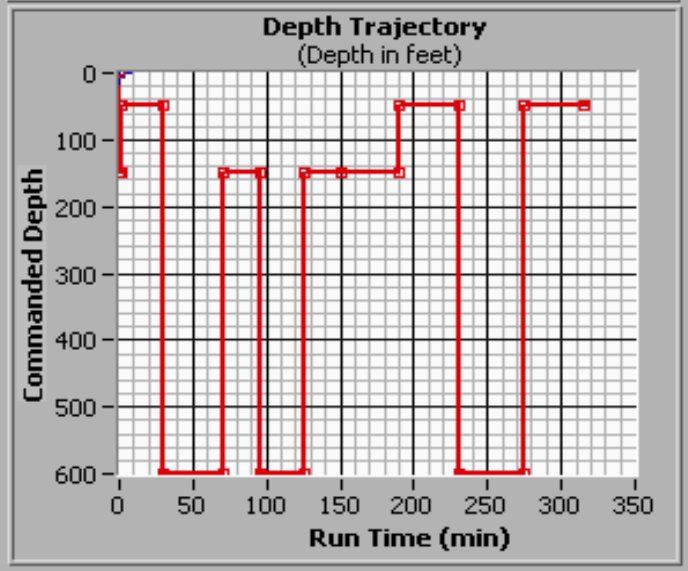
File Target Edit View Help

Target: USN Mod2 | RPS: 2

Battery Life Remaining (%): 12

Pinger OFF | MPD OFF | ACLs OFF





	Depth	Hdng	Spd	A/P Sel	Seg Dur	Exit Time	Range	Tonal Attn	AEM	Mad
1	150	90	8	6	00:02	00:02	540	0	None	
2	50	90	4	6	00:28	00:30	3781	0	None	
3	600	100	8	7	00:40	01:10	10802	0	None	
4	150	70	8	7	00:25	01:35	6751	0	None	
5	600	75	8	7	00:30	02:05	8101	0	None	
6	150	95	6	7	00:25	02:30	5063	0	None	
7	150	100	6	7	00:40	03:10	8101	0	None	
8	50	90	4	6	00:40	03:50	5401	0	None	
9	600	85	8	7	00:45	04:35	12152	0	None	
10	50	105	4	6	00:40	05:15	5401	0	None	
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For Help, press F1 Version 2.02 Depot

Geometry Description

- Run Position switch position #2 is a Basic east geometry. The first turn is to an 100 degree heading.
- The unit stays within a 5,000 (north /south)by 65,000 (east/west) yd box
- It operates at three depths (50, 150 and 600 feet)
- It runs for approximately 5 hours and 20 minutes

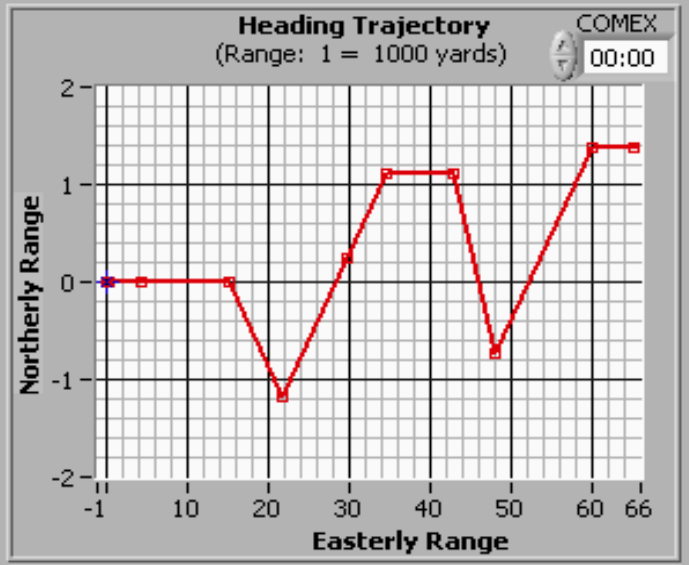
RGA Windows Application - Deployed Fleet Rev a

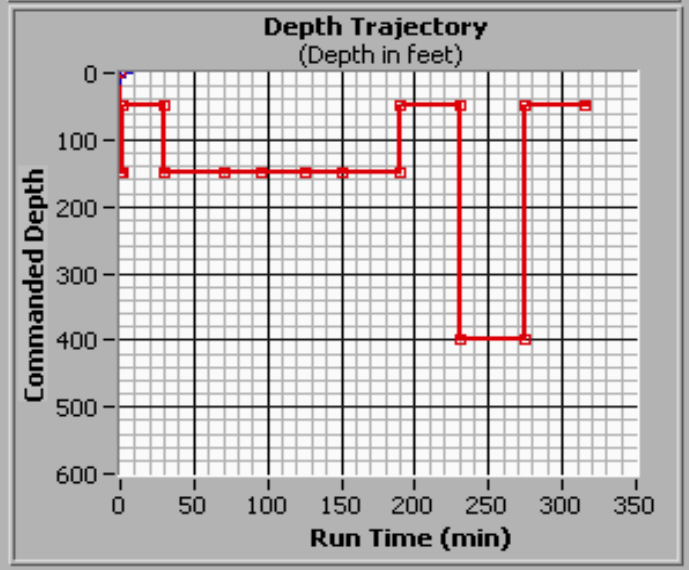
File Target Edit View Help

Target: USN Mod2 | RPS: 3

Battery Life Remaining (%): 12

Pinger OFF | MPD OFF | ACLs OFF





	Depth	Hdng	Spd	A/P Sel	Seg Dur	Exit Time	Range	Tonal Attn	AEM	Mad
1	150	90	8	1	00:02	00:02	540	0	None	
2	50	90	4	1	00:28	00:30	3781	0	None	
3	150	90	8	1	00:40	01:10	10802	0	None	
4	150	100	8	1	00:25	01:35	6751	0	None	
5	150	80	8	1	00:30	02:05	8101	0	None	
6	150	80	6	1	00:25	02:30	5063	0	None	
7	150	90	6	1	00:40	03:10	8101	0	None	
8	50	110	4	1	00:40	03:50	5401	0	None	
9	400	80	8	1	00:45	04:35	12152	0	None	
10	50	90	4	1	00:40	05:15	5401	0	None	
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For Help, press F1 Version 2.02 Depot

Geometry Description

- Run Position switch position #3 is a Basic east

  geometry. The first turn is to an 100 degree heading.
- The unit stays within a 3,000 (north /south) by 66,000 (east/west) yd box
- It operates at three depths (50, 150 and 400 feet)
- It runs for approximately 5 hours and 20 minutes

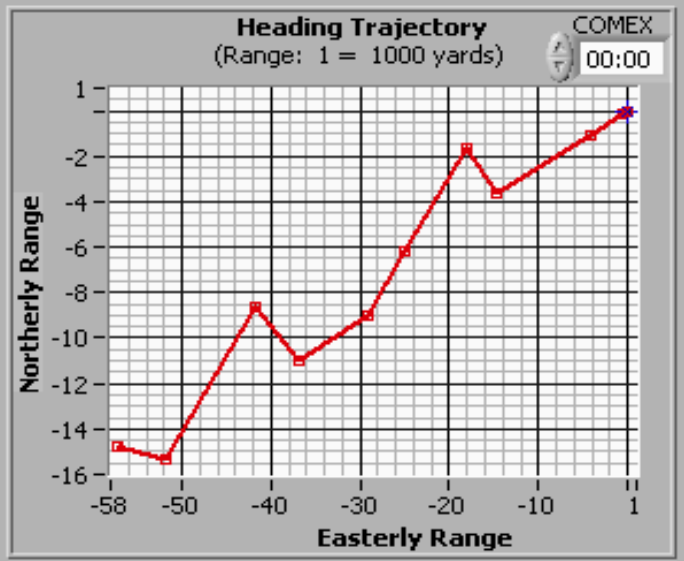
RGA Windows Application - Deployed Fleet Rev a

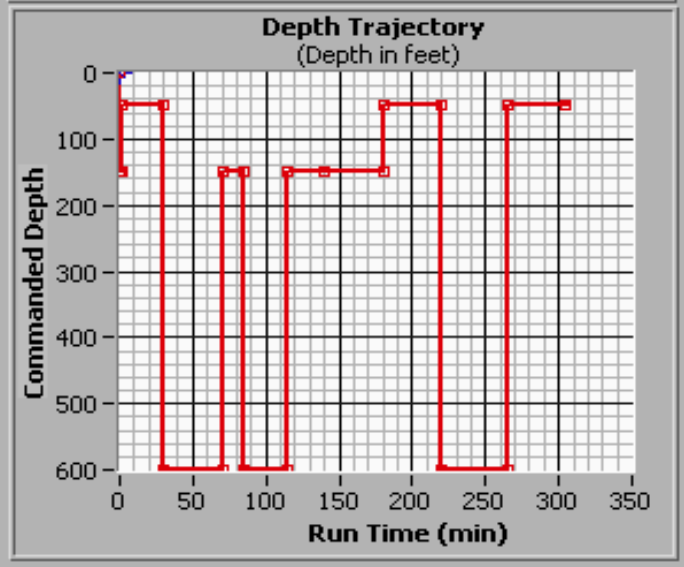
File Target Edit View Help

Target: USN Mod2 | RPS: 4

Battery Life Remaining (%) : 16

Pinger OFF | MPD OFF | ACLs OFF





	Depth	Hdng	Spd	A/P Sel	Seg Dur	Exit Time	Range	Tonal Attn	AEM	Mad
1	150	256	8	6	00:02	00:02	540	0	None	
2	50	256	4	6	00:28	00:30	3781	0	None	
3	600	256	8	7	00:40	01:10	10802	0	None	
4	150	300	8	7	00:15	01:25	4051	0	None	
5	600	236	8	7	00:30	01:55	8101	0	None	
6	150	236	6	7	00:25	02:20	5063	0	None	
7	150	256	6	7	00:40	03:00	8101	0	None	
8	50	296	4	6	00:40	03:40	5401	0	None	
9	600	236	8	7	00:45	04:25	12152	0	None	
10	50	276	4	6	00:40	05:05	5401	0	None	
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For Help, press F1 Version 2.02 Depot

Geometry Description

- Run Position switch position #4 is a Basic west geometry. The first heading is 256 degrees.
- The unit stays within a 16,000 (north /south) by 60,000 (east/west) yd box
- It operates at three depths (50, 150 and 600 feet)
- It runs for approximately 5 hours and 20 minutes

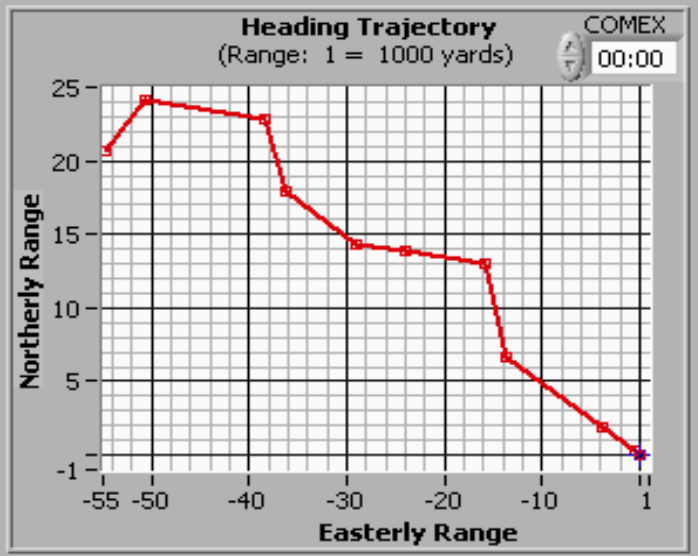
RGA Windows Application - Deployed Fleet Rev a

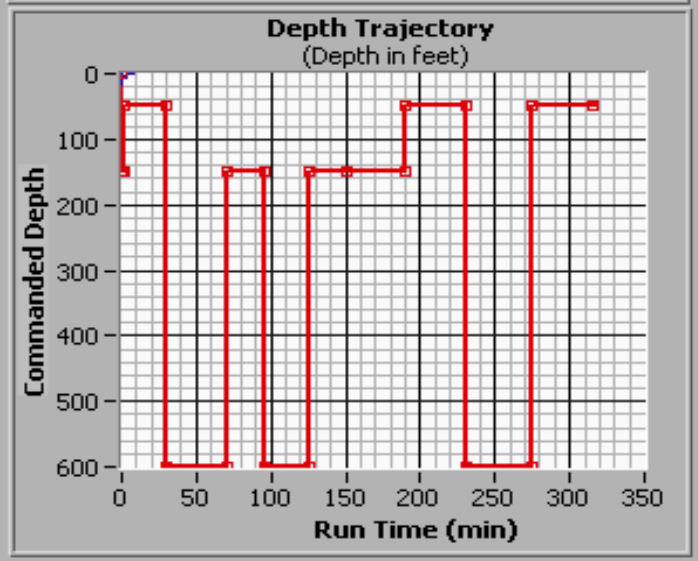
File Target Edit View Help

Target: USN Mod2 | RPS: 5

Battery Life Remaining (%): 12

Pinger OFF | MPD OFF | ACLs OFF





	Depth	Hdng	Spd	A/P Sel	Seg Dur	Exit Time	Range	Tonal Attn	AEM	Mad
1	150	296	8	6	00:02	00:02	540	0	None	
2	50	296	4	6	00:28	00:30	3781	0	None	
3	600	296	8	7	00:40	01:10	10802	0	None	
4	150	340	8	7	00:25	01:35	6751	0	None	
5	600	276	8	7	00:30	02:05	8101	0	None	
6	150	276	6	7	00:25	02:30	5063	0	None	
7	150	296	6	7	00:40	03:10	8101	0	None	
8	50	336	4	6	00:40	03:50	5401	0	None	
9	600	276	8	7	00:45	04:35	12152	0	None	
10	50	231	4	6	00:40	05:15	5401	0	None	
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For Help, press F1 Version 2.02 Depot

Geometry Description

- Run Position switch position #5 is a Basic west geometry. The first heading is 296 degrees.
- The unit stays within a 26,000 (north /south) by 51,000 (east/west) yd box
- It operates at three depths (50, 150 and 600 feet)
- It runs for approximately 5 hours and 20 minutes

RPS #6

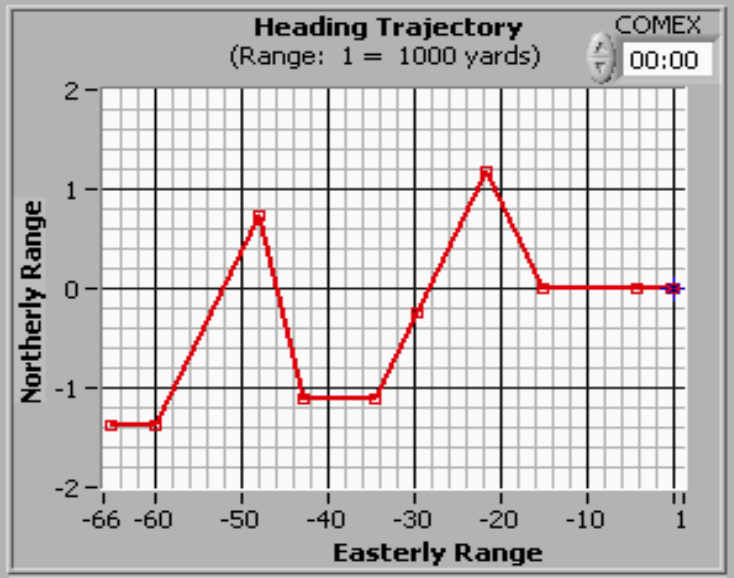
RGA Windows Application - Deployed Fleet Rev a

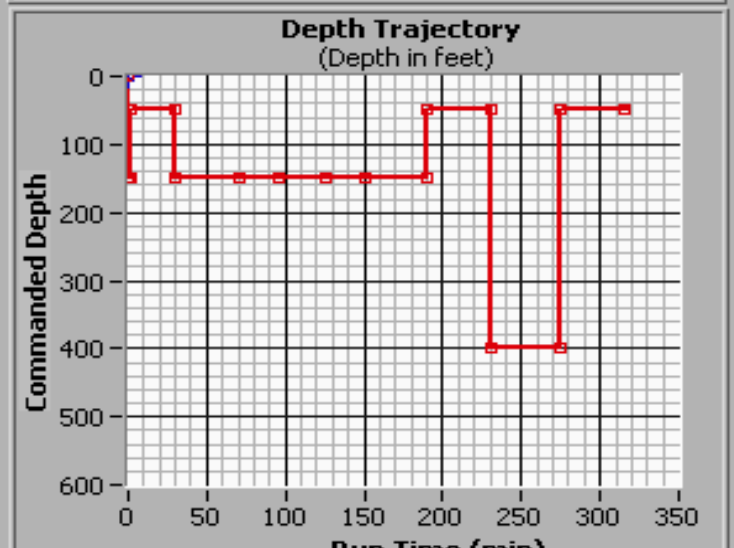
File Target Edit View Help

Target: USN Mod2 | RPS: 6

Battery Life Remaining (%): 12

Pinger OFF | MPD OFF | ACLs OFF





	Depth	Hdng	Spd	A/P Sel	Seg Dur	Exit Time	Range	Tonal Attn	AEM	Mad
1	150	270	8	1	00:02	00:02	540	0	None	
2	50	270	4	1	00:28	00:30	3781	0	None	
3	150	270	8	1	00:40	01:10	10802	0	None	
4	150	280	8	1	00:25	01:35	6751	0	None	
5	150	260	8	1	00:30	02:05	8101	0	None	
6	150	260	6	1	00:25	02:30	5063	0	None	
7	150	270	6	1	00:40	03:10	8101	0	None	
8	50	290	4	1	00:40	03:50	5401	0	None	
9	400	260	8	1	00:45	04:35	12152	0	None	
10	50	270	4	1	00:40	05:15	5401	0	None	
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Geometry Description

- Run Position switch position #6 is a Basic west geometry. The first heading is 270 degrees.
- The unit stays within a 3,000 (north /south) by 67,000 (east/west) yd box
- It operates at three depths (50, 150 and 400 feet)
- It runs for approximately 5 hours and 20 minutes

RPS #7

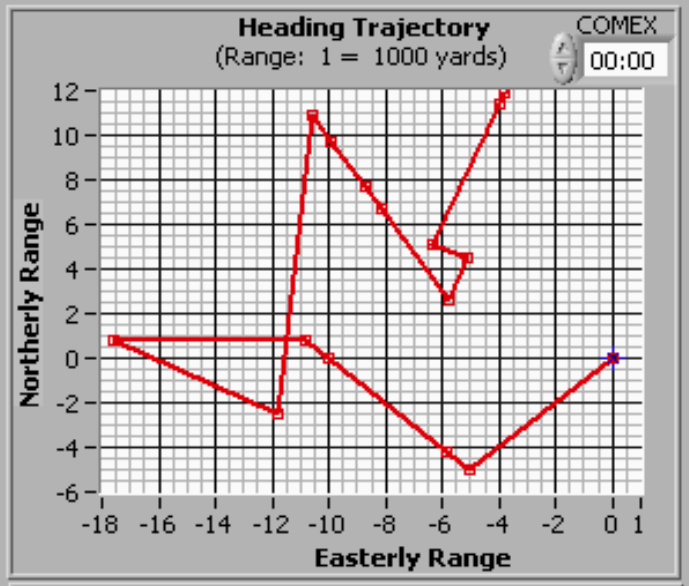
RGA Windows Application - Deployed Fleet Rev a

File Target Edit View Help

Target: USN Mod2 | RPS: 7

Battery Life Remaining (%): 12

Pinger ON | MPD OFF | ACLs OFF



	Depth	Hdng	Spd	A/P Sel	Seg Dur	Exit Time	Range	Tonal Attn	AEM	Mad
1	325	225	7	3	00:30	00:30	7089	0	AEM1	
2	325	315	7	3	00:05	00:35	1181	0	AEM1	
3	50	315	7	2	00:25	01:00	5907	0	AEM1	
4	50	315	7	5	00:05	01:05	1181	0	None	
5	325	270	8	3	00:25	01:30	6751	0	AEM1	
6	325	120	8	3	00:25	01:55	6751	0	AEM1	
7	325	5	8	3	00:50	02:45	13502	0	AEM1	
8	325	150	8	3	00:05	02:50	1350	0	AEM1	
9	50	150	7	2	00:10	03:00	2363	0	AEM1	
10	50	150	7	5	00:05	03:05	1181	0	None	
11	325	150	7	3	00:20	03:25	4726	0	AEM1	
12	325	20	3	3	00:20	03:45	2025	0	AEM1	
13	325	295	8	3	00:05	03:50	1350	0	AEM1	
14	325	20	8	3	00:25	04:15	6751	0	AEM1	
15	325	20	8	3	00:02	04:17	540	0	AEM1	
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Geometry Description

- Run Position switch position #7 is an intermediate geometry. The first heading is 225 degrees.
- The unit stays within a 18,000 (north /south) by 18,000 (east/west) yd box
- It operates at two depths (50 and 325 feet)
- It runs for approximately 4 hours and 20 minutes

RPS #8

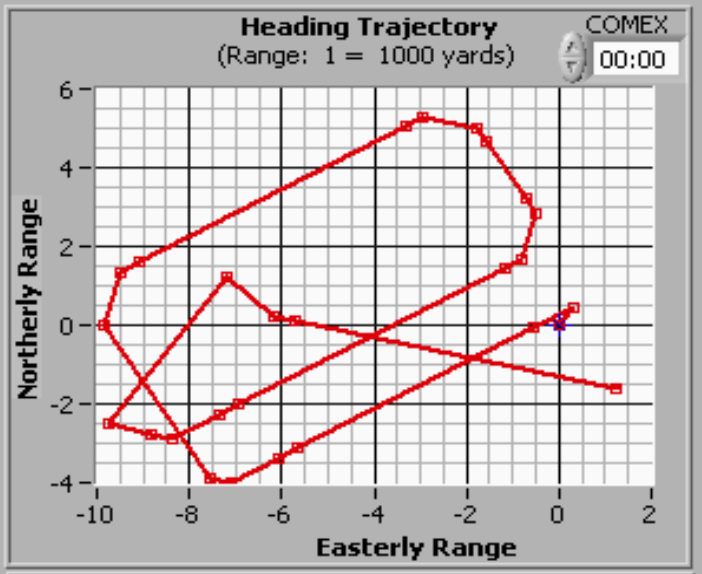
RGA Windows Application - Deployed Fleet Rev a

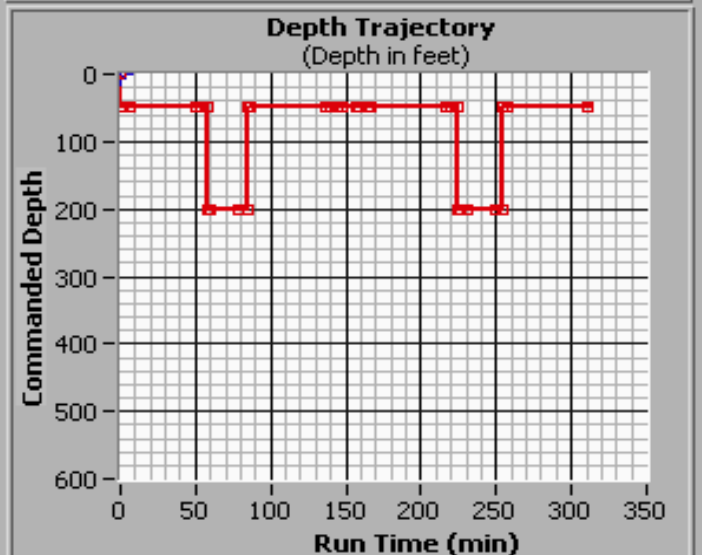
File Target Edit View Help

Target: USN Mod2 | RPS: 8

Battery Life Remaining (%): 40

Pinger OFF | MPD OFF | ACLs OFF





	Depth	Hdng	Spd	A/P Sel	Seg Dur	Exit Time	Range	Tonal Attn	AEM	Mad
1	50	34	8	2	00:02	00:02	540	0	AEM1	
2	50	239	6	2	00:05	00:07	1013	0	AEM1	
3	50	239	4	2	00:44	00:51	5941	0	AEM1	
4	50	239	7	2	00:02	00:53	473	0	AEM1	
5	50	239	7	5	00:05	00:58	1181	0	None	
6	200	284	7	3	00:02	01:00	473	0	AEM1	
7	200	329	7	3	00:19	01:19	4490	0	AEM1	
8	200	14	7	3	00:06	01:25	1418	0	AEM1	
9	50	59	7	2	00:02	01:27	473	0	AEM1	
10	50	59	4	2	00:50	02:17	6751	0	AEM1	
11	50	59	6	2	00:02	02:19	405	0	AEM1	
12	50	104	6	2	00:06	02:25	1215	0	AEM1	
13	50	149	6	2	00:02	02:27	405	0	AEM1	
14	50	149	5	2	00:10	02:37	1688	0	AEM1	
15	50	149	6	2	00:02	02:39	405	0	AEM1	
16	50	194	6	2	00:06	02:45	1215	0	AEM1	
17	50	239	6	2	00:02	02:47	405	0	AEM1	
18	50	239	4	2	00:50	03:37	6751	0	AEM1	
19	50	239	7	2	00:02	03:39	473	0	AEM1	
20	50	239	7	5	00:05	03:44	1181	0	None	
21	200	284	7	3	00:02	03:46	473	0	AEM1	
22	200	284	7	3	00:04	03:50	945	0	AEM1	

Geometry Description

- Run Position switch position #8 is an intermediate geometry. The first heading is 34 degrees.
- The unit stays within a 10,000 (north /south) by 12,000 (east/west) yd box
- It operates at two depths (50 and 200 feet)
- It runs for approximately 5 hours and 20 minutes

RPS #9

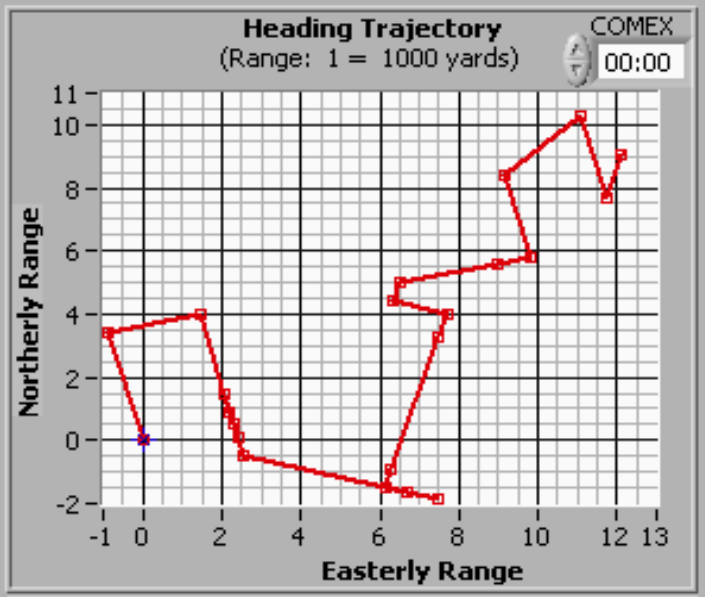
RGA Windows Application - Deployed Fleet Rev a

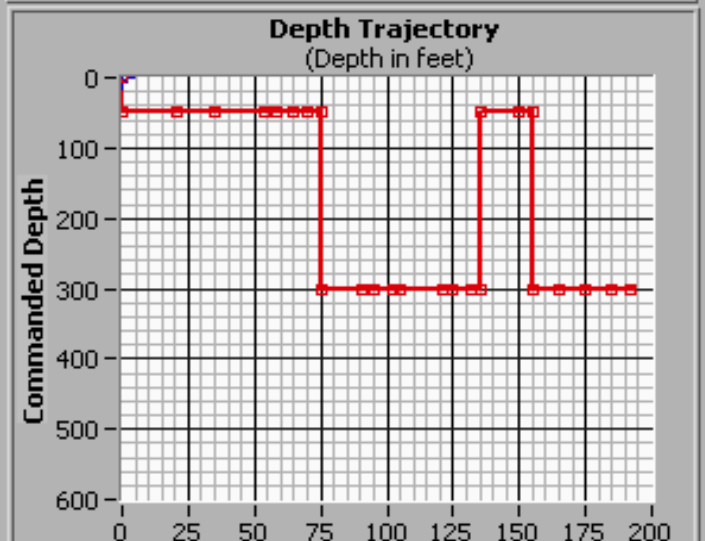
File Target Edit View Help

Target: USN Mod2 | RPS: 9

Battery Life Remaining (%): 49

Pinger OFF | MPD OFF | ACLs OFF





	Depth	Hdng	Spd	A/P Sel	Seg Dur	Exit Time	Range	Tonal Attn	AEM	Mad
1	50	346	5	8	00:21	00:21	3544	0	None	
2	50	76	5	8	00:14	00:35	2363	0	AEM2	
3	50	166	5	9	00:19	00:54	3207	0	AEM2	
4	50	166	6	9	00:04	00:58	810	0	AEM2	
5	50	346	6	9	00:07	01:05	1418	0	AEM2	
6	50	166	6	9	00:05	01:10	1013	0	AEM2	
7	50	166	6	4	00:05	01:15	1013	0	AEM2	
8	300	106	8	10	00:16	01:31	4321	0	AEM2	
9	300	106	6	10	00:04	01:35	810	0	AEM2	
10	300	286	6	10	00:07	01:42	1418	0	AEM2	
11	300	16	6	10	00:03	01:45	608	0	AEM2	
12	300	16	8	10	00:16	02:01	4321	0	AEM2	
13	300	16	6	10	00:04	02:05	810	0	AEM2	
14	300	286	6	10	00:07	02:12	1418	0	AEM2	
15	300	16	6	10	00:03	02:15	608	0	AEM2	
16	50	76	5	9	00:15	02:30	2532	0	AEM2	
17	50	76	5	4	00:05	02:35	844	0	None	
18	300	346	8	10	00:10	02:45	2700	0	AEM2	
19	300	46	8	10	00:10	02:55	2700	0	AEM2	
20	300	166	8	10	00:10	03:05	2700	0	AEM2	
21	300	16	6	10	00:07	03:12	1418	0	AEM2	

Geometry Description

- Run Position switch position #9 is an advanced geometry. The first heading is 346 degrees.
- The unit stays within a 14,000 (north /south) by 14,000 (east/west) yd box
- It operates at two depths (50 and 300 feet)
- It runs for approximately 3 hours and 20 minutes

RPS #10

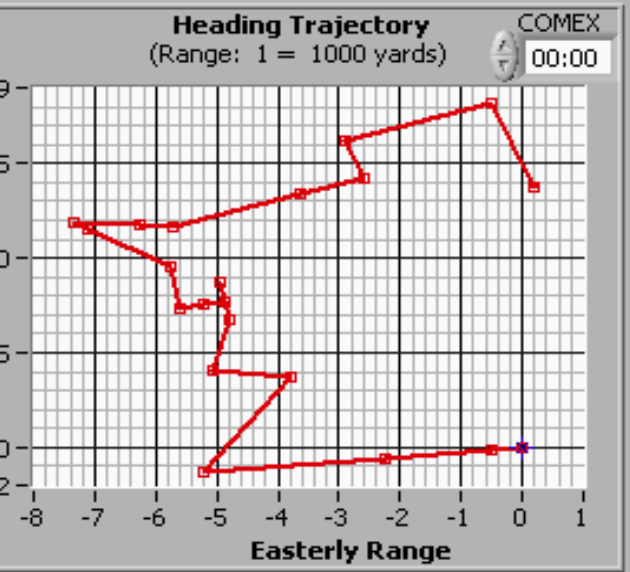
A Windows Application - Deployed Fleet Rev a

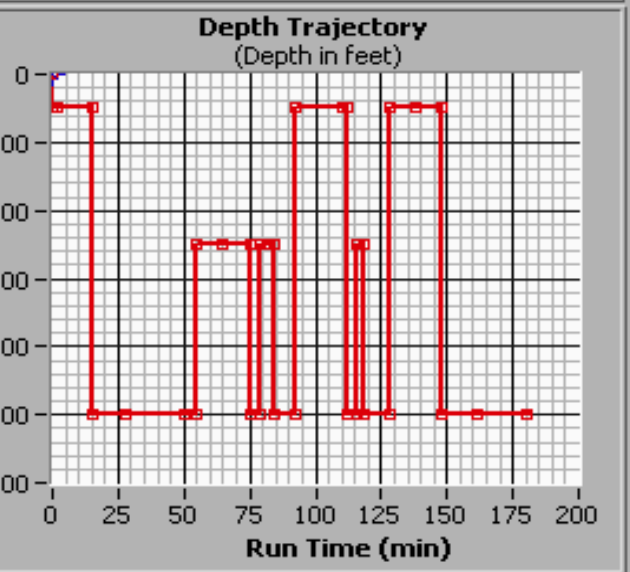
arget Edit View Help

Target: USN Mod2 | RPS: 10

Battery Life Remaining (%): 49

Pinger OFF | MPD OFF | ACLs OFF





	Depth	Hdng	Spd	A/P Sel	Seg Dur	Exit Time	Range	Tonal Attn	AEM	Mad
1	50	256	8	9	00:02	00:02	540	0	None	
2	50	256	4	9	00:13	00:15	1755	0	None	
3	500	256	7	10	00:13	00:28	3072	0	None	
4	500	16	7	10	00:22	00:50	5198	0	None	
5	500	286	8	10	00:05	00:55	1350	0	None	
6	250	6	8	10	00:10	01:05	2700	0	None	
7	250	356	6	10	00:10	01:15	2025	0	None	
8	500	176	8	10	00:04	01:19	1080	0	None	
9	250	246	4	10	00:03	01:22	405	0	None	
10	250	246	6	10	00:02	01:24	405	0	None	
11	500	356	8	10	00:08	01:32	2160	0	None	
12	50	326	4	8	00:18	01:50	2430	0	AEM2	
13	50	326	6	8	00:02	01:52	405	0	None	
14	500	96	8	10	00:04	01:56	1080	0	None	
15	250	96	8	10	00:02	01:58	540	0	None	
16	500	51	8	10	00:10	02:08	2700	0	AEM2	
17	50	51	4	8	00:10	02:18	1350	0	None	
18	50	351	6	8	00:10	02:28	2025	0	None	
19	500	51	7	10	00:13	02:41	3072	0	None	
20	500	171	7	10	00:19	03:00	4490	0	None	
21										
22										

Geometry Description

- Run Position switch position #10 is an advanced geometry. The first heading is 256 degrees.
- The unit stays within a 20,000 (north /south) by 8,000 (east/west) yd box
- It operates at three depths (50, 250 and 500feet)
- It runs for approximately 3 hours

RPS 11

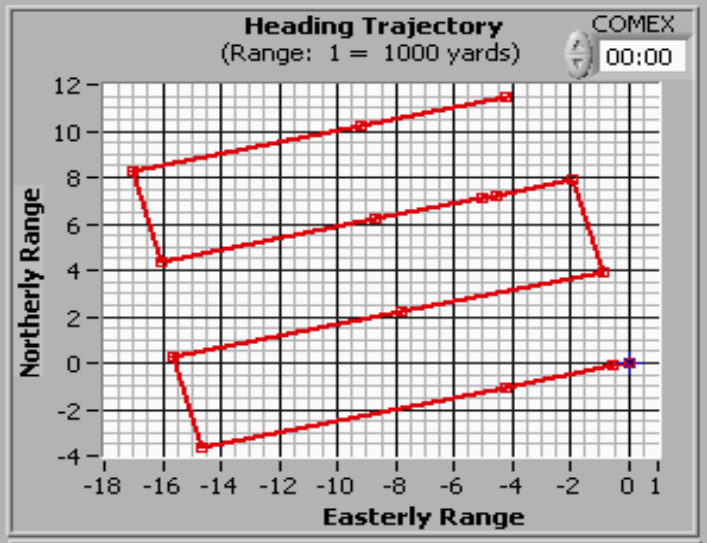
RGA Windows Application - Deployed Fleet Rev a

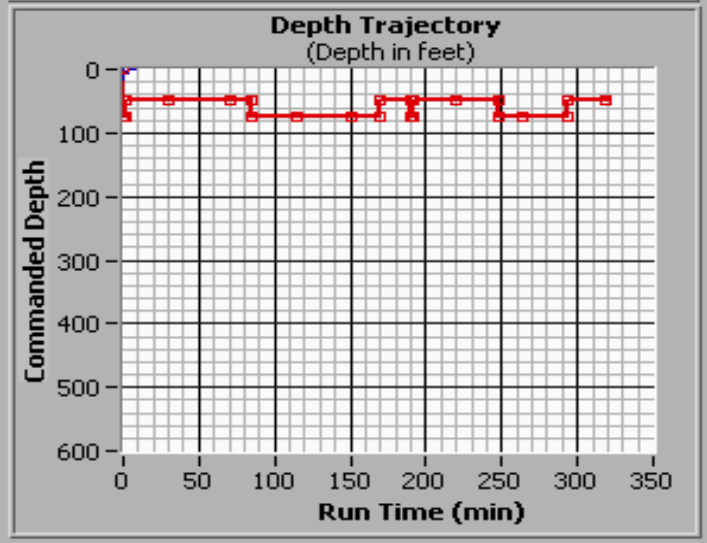
File Target Edit View Help

Target: USN Mod2 | RPS: 11

Battery Life Remaining (%): 5

Pinger OFF | MPD OFF | ACLs OFF





	Depth	Hdng	Spd	A/P Sel	Seg Dur	Exit Time	Range	Tonal Attn	AEM	Mad
1	75	256	8	3	00:02	00:02	540	0	None	
2	50	256	4	2	00:28	00:30	3781	0	None	
3	50	256	8	2	00:40	01:10	10802	0	None	
4	50	346	8	2	00:15	01:25	4051	0	None	
5	75	76	8	3	00:30	01:55	8101	0	None	
6	75	76	6	3	00:35	02:30	7089	0	None	
7	75	346	6	3	00:20	02:50	4051	0	None	
8	50	256	4	2	00:20	03:10	2700	0	None	
9	75	256	8	3	00:02	03:12	540	0	None	
10	50	256	4	2	00:28	03:40	3781	0	None	
11	50	256	8	2	00:28	04:08	7561	0	None	
12	75	346	8	3	00:15	04:23	4051	0	None	
13	75	76	8	3	00:30	04:53	8101	0	None	
14	50	76	6	2	00:25	05:18	5063	0	None	
15										
16										
17										
18										
19										
20										
21										
22										

For Help, press F1 Version 2.02 Depot

Geometry Description

- Run Position switch position #11 is an advanced geometry. The first heading is 256 degrees.
- The unit stays within a 16,000 (north /south) by 16,000 (east/west) yd box
- It operates at two depths (50 and 75 feet)
- It runs for approximately 5 hours 20 min.

RPS #12

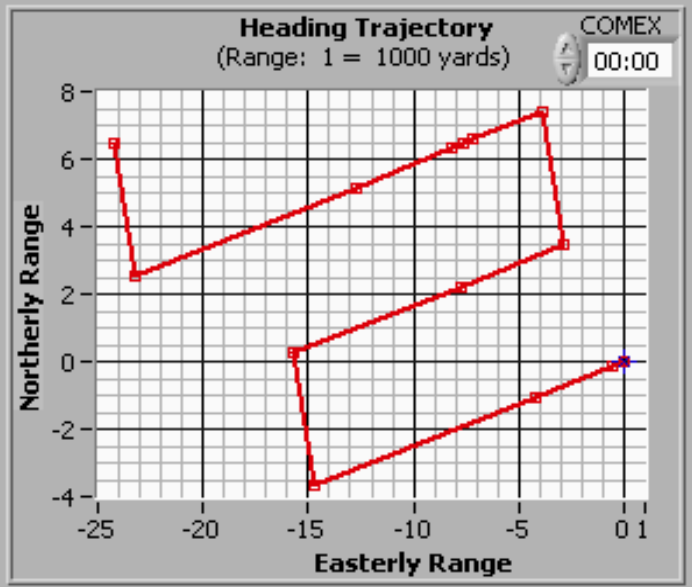
RGA Windows Application - Deployed Fleet Rev a

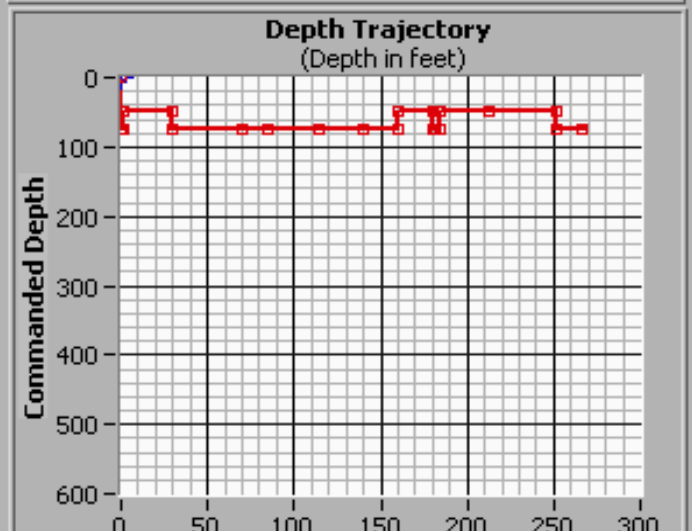
File Target Edit View Help

Target: USN Mod2 | RPS: 12

Battery Life Remaining (%): 5

Pinger OFF | MPD OFF | ACLs OFF



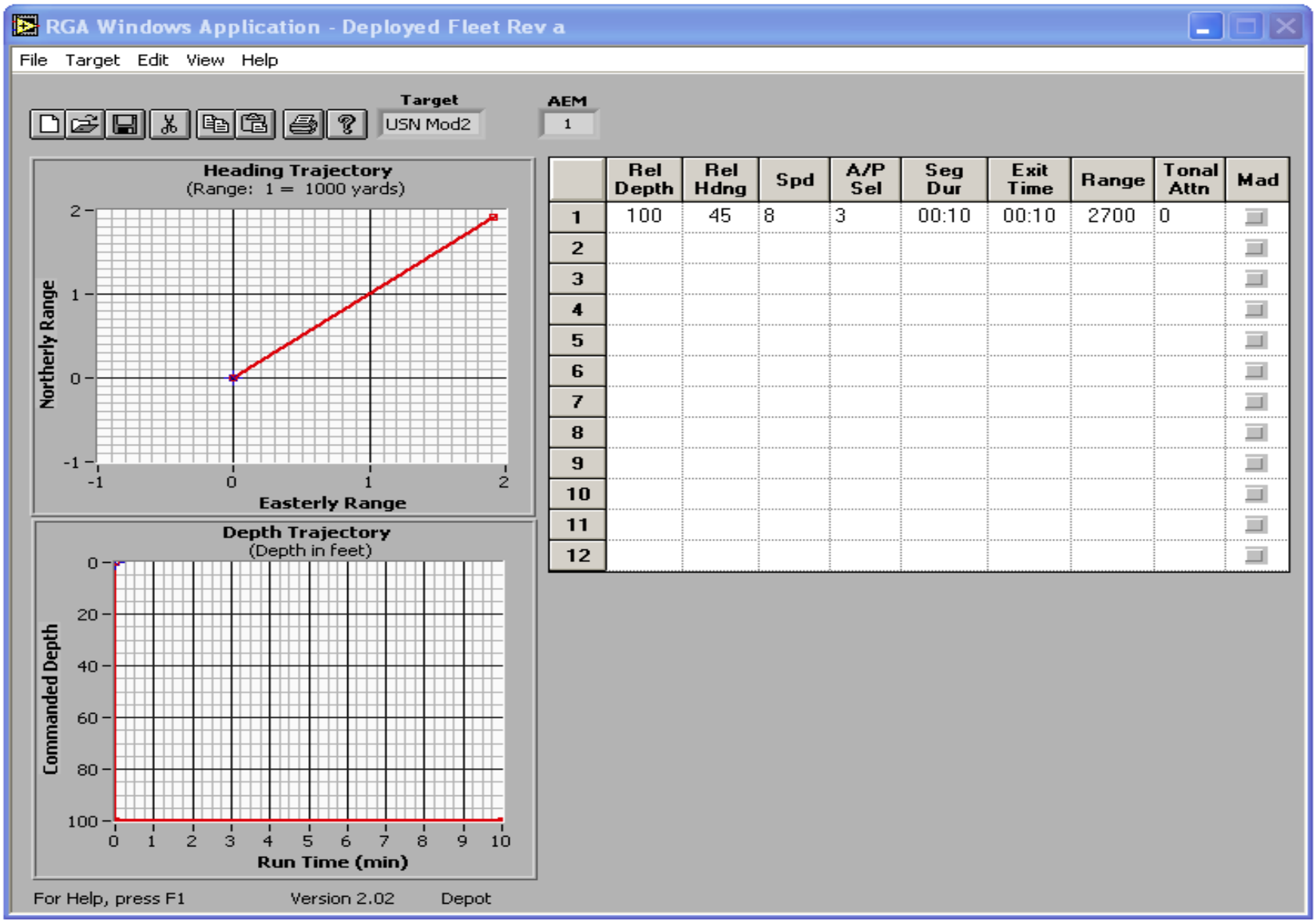


	Depth	Hdng	Spd	A/P Sel	Seg Dur	Exit Time	Range	Tonal Attn	AEM	Mad
1	75	256	8	3	00:02	00:02	540	0	None	
2	50	256	4	2	00:28	00:30	3781	0	None	
3	75	256	8	3	00:40	01:10	10802	0	None	✓
4	75	346	8	3	00:15	01:25	4051	0	None	✓
5	75	76	8	3	00:30	01:55	8101	-6	None	✓
6	75	76	6	3	00:25	02:20	5063	-6	None	
7	75	346	6	3	00:20	02:40	4051	0	None	
8	50	256	5	2	00:20	03:00	3376	0	None	
9	75	256	8	3	00:02	03:02	540	0	None	
10	75	256	8	3	00:02	03:04	540	0	None	
11	50	256	5	2	00:28	03:32	4726	-9	None	
12	50	256	8	2	00:40	04:12	10802	-9	None	
13	75	346	8	3	00:15	04:27	4051	0	None	
14										
15										
16										
17										
18										
19										
20										
21										

Geometry Description

- Run Position switch position #12 is a MAD capable geometry. The first heading is 256 degrees.
- The unit stays within a 10,000 (north /south) by 25,000 (east/west) yd box
- It operates at two depths (50 and 75 feet)
- It runs for approximately 4 hours 30 min.
- MAD is activated for 1 hr and 25 min. starting at 30 minutes into the run.

Autonomous Evasion Maneuver 1



	Rel Depth	Rel Hdng	Spd	A/P Sel	Seg Dur	Exit Time	Range	Tonal Attn	Mad
1	100	45	8	3	00:10	00:10	2700	0	
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									

Autonomous Evasion Maneuver 1

If Autonomous Evasion Maneuver 1 is activated the EMATT will:

- Take a heading of 45 degrees
- Assume a 100 foot depth
- Stay at these parameters for 10 min.
- Return to original geometry
- AEM 1 is activated for portions of profiles RPS 7 and 8

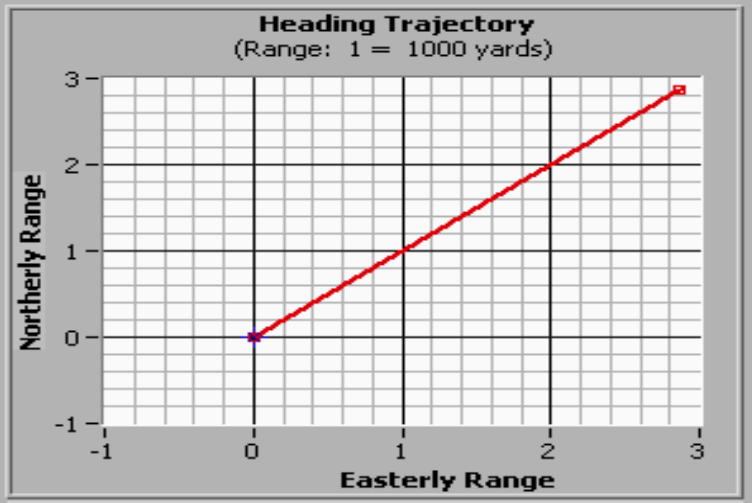
Autonomous Evasion

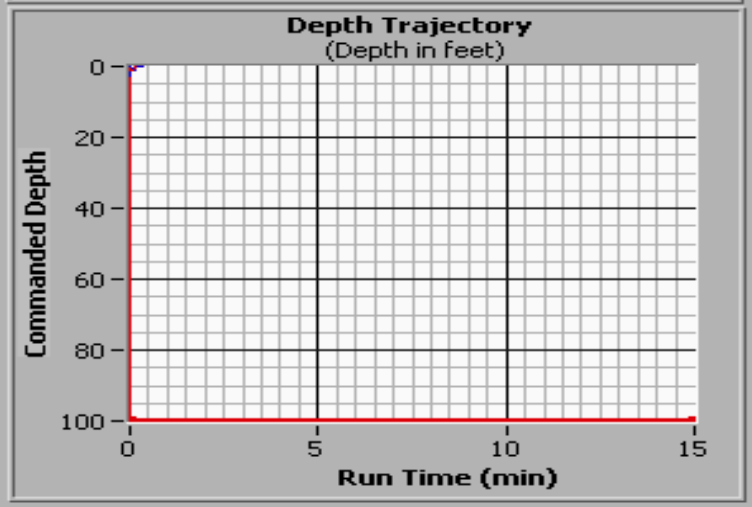
RGA Windows Application - Deployed Fleet Rev a

File Target Edit View Help

Target: USN Mod2

AEM: 2





	Rel Depth	Rel Hdng	Spd	A/P Sel	Seg Dur	Exit Time	Range	Tonal Attn	Mad
1	100	45	8	10	00:15	00:15	4051	-3	
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									

For Help, press F1 Version 2.02 Depot

Autonomous Evasion Maneuver 2

If Autonomous Evasion Maneuver 2 is activated the EMATT will:

- Take a heading of 45 degrees
- Assume a 100 foot depth
- Stay at these parameters for 15 min.
- Return to original geometry
- AEM 2 is activated for portions of Profiles RPS 9 and 10.